

**National Functional Guidelines Report #03**

**Lab** MITKEM(Mitkem Laboratories) **SDG** MF2B16 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183781 **SOW** ISM01.3

**Data Review Reports**

Blanks

Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B17, PBS60, MF2B16L
	Calcium MF2B17 , PBS60
	Potassium MF2B16L , MF2B17
Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF2B17, PBS60, MF2B16L
	Calcium MF2B17 , PBS60
	Potassium MF2B16L , MF2B17
Blanks	ICP_AES
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B16, MF2B16D, MF2B16L
	Calcium LCS60 , MF2B16 , MF2B16D , MF2B16L
	Potassium LCS60 , MF2B16 , MF2B16D
Blanks	ICP_AES
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B16, MF2B16D, MF2B16L
	Calcium LCS60 , MF2B16 , MF2B16D , MF2B16L
	Potassium LCS60 , MF2B16 , MF2B16D , MF2B16L
Blanks	ICP_AES
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B17
	Calcium MF2B17
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.

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***Data Review Reports***

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Blanks

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Blanks	ICP_AES
	LCS60, MF2B16, MF2B16D, MF2B16L
Calcium	LCS60 , MF2B16 , MF2B16D , MF2B16L

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## Data Review Reports

Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B17, MF2B16L, MF2B16, MF2B16D, PBS69
	Barium MF2B17
	Cobalt MF2B16L, MF2B17
	Beryllium MF2B16, MF2B16D, MF2B16L
	Antimony PBS69
	Thallium MF2B16
	Cadmium MF2B16, MF2B16D
	Silver MF2B16, MF2B16D, MF2B17
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF2B16L, MF2B17, PBS69, MF2B16, MF2B16D
	Vanadium MF2B16L, MF2B17, PBS69
	Arsenic MF2B16L, MF2B17
	Barium MF2B17
	Cobalt MF2B16L, MF2B17
	Nickel MF2B17
	Beryllium MF2B16, MF2B16D, MF2B16L
	Antimony PBS69
	Thallium MF2B16
	Cadmium MF2B16, MF2B16D
	Copper MF2B16L, MF2B17
	Silver MF2B16, MF2B16D, MF2B17
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS69, MF2B16, MF2B16D, MF2B16S, MF2B16A, MF2B16L, MF2B17

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## Data Review Reports

Blanks

Blanks	ICP_MS
	Cobalt LCS69 , MF2B16 , MF2B16D , MF2B16S
	Barium LCS69 , MF2B16 , MF2B16A , MF2B16D , MF2B16L , MF2B16S
	Beryllium LCS69 , MF2B16S
	Antimony LCS69 , MF2B16A , MF2B16S
	Thallium LCS69 , MF2B16S
	Cadmium LCS69 , MF2B16S
	Silver LCS69 , MF2B16S
	Lead LCS69 , MF2B16 , MF2B16D , MF2B16L , MF2B16S , MF2B17
Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS69, MF2B16, MF2B16D, MF2B16L, MF2B16S, MF2B16A, MF2B17
	Vanadium LCS69 , MF2B16 , MF2B16D , MF2B16L , MF2B16S
	Cobalt LCS69 , MF2B16 , MF2B16D , MF2B16L , MF2B16S
	Barium LCS69 , MF2B16 , MF2B16A , MF2B16D , MF2B16L , MF2B16S
	Beryllium LCS69 , MF2B16S
	Antimony LCS69 , MF2B16A , MF2B16S
	Thallium LCS69 , MF2B16S
	Cadmium LCS69 , MF2B16S
	Silver LCS69 , MF2B16S
	Lead LCS69 , MF2B16 , MF2B16D , MF2B16L , MF2B16S , MF2B17
Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS69, MF2B16, MF2B16D, MF2B16S, MF2B16A
	Vanadium LCS69 , MF2B16 , MF2B16D , MF2B16S
	Antimony LCS69 , MF2B16A , MF2B16S

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### *Data Review Reports*

Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B16, MF2B17
	Mercury MF2B16 , MF2B17

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***Data Review Reports***

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B16, MF2B16D, MF2B16L, MF2B17, PBS60
	Sodium MF2B16 , MF2B16D , MF2B16L
	Calcium MF2B17 , PBS60
	Potassium MF2B16L , MF2B17
	Magnesium MF2B16L , MF2B17

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**Data Review Reports**

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B16L, MF2B17, PBS69, MF2B16, MF2B16D
	Vanadium MF2B16L , MF2B17 , PBS69
	Arsenic MF2B16L , MF2B17
	Chromium MF2B16L , MF2B17
	Barium MF2B17
	Cobalt MF2B16L , MF2B17
	Zinc MF2B17
	Nickel MF2B17
	Beryllium MF2B16 , MF2B16D , MF2B16L
	Antimony PBS69
	Thallium MF2B16
	Cadmium MF2B16 , MF2B16D
	Copper MF2B16L , MF2B17
	Silver MF2B16 , MF2B16D , MF2B17

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### *Data Review Reports*

Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2B16, MF2B17
	Calcium MF2B16D



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Duplicates

Duplicates	ICP_MS
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2B16, MF2B17
	Barium MF2B16D
	Zinc MF2B16D
Duplicates	ICP_MS
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2B16, MF2B17
	Chromium MF2B16D
	Nickel MF2B16D

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### *Data Review Reports*

Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B16, MF2B16D, MF2B16S, MF2B17

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Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B16, MF2B16D, MF2B16L, MF2B16S, MF2B17

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### Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B16, MF2B16A, MF2B16D, MF2B16L, MF2B16S, MF2B17

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### Data Review Reports

#### Matrix Spikes

Matrix Spikes	ICP_MS
NG08	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2B16, MF2B17
	Antimony MF2B16S
Matrix Spikes	ICP_MS
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2B16, MF2B17
	Barium MF2B16S

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### *Data Review Reports*

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2B16, MF2B17
	Vanadium MF2B16L
	Chromium MF2B16L